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Display	<input type="text" value="default"/>	Save	Text	Add to Clipboard	Get Subsequence			

☐ 1: O14734. Peroxisomal acyl-...[gi:14285685]

Links

LOCUS PTE1_HUMAN 319 aa linear PRI 15-JUN-2002

DEFINITION Peroxisomal acyl-coenzyme A thioester hydrolase 1 (Peroxisomal long-chain acyl-coA thioesterase 1) (HIV-Nef associated acyl coA thioesterase) (Thioesterase II) (hTE).

ACCESSION O14734

VERSION O14734 GI:14285685

DBSOURCE swissprot: locus PTE1_HUMAN, accession O14734; class: standard. extra accessions: O15261, created: Oct 16, 2001. sequence updated: Oct 16, 2001. annotation updated: Jun 15, 2002. xrefs: gi: 2318124, gi: 2318125, gi: 2243145, gi: 2243146, gi: 4680312, gi: 4680313, gi: 13929448, gi: 3191970 xrefs (non-sequence databases): HSSP P23911, InterPro IPR003703, Pfam PF02551

KEYWORDS Hydrolase; Serine esterase; Peroxisome.

SOURCE Homo sapiens.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (residues 1 to 319)

AUTHORS Watanabe,H., Shiratori,T., Shoji,H., Miyatake,S., Okazaki,Y., Ikuta,K., Sato,T. and Saito,T.

TITLE A novel acyl-CoA thioesterase enhances its enzymatic activity by direct binding with HIV Nef

JOURNAL Biochem. Biophys. Res. Commun. 238 (1), 234-239 (1997)

MEDLINE 97445158

REMARK SEQUENCE FROM N.A.

REFERENCE 2 (residues 1 to 319)

AUTHORS Liu,L.X., Margottin,F., Le Gall,S., Schwartz,O., Selig,L., Benarous,R. and Benichou,S.

TITLE Binding of HIV-1 Nef to a novel thioesterase enzyme correlates with Nef-mediated CD4 down-regulation

JOURNAL J. Biol. Chem. 272 (21), 13779-13785 (1997)

MEDLINE 97298085

REMARK SEQUENCE FROM N.A.
TISSUE=Lymphoid

REFERENCE 3 (residues 1 to 319)

AUTHORS Jones,J.M., Nau,K., Geraghty,M.T., Erdmann,R. and Gould,S.J.

TITLE Identification of peroxisomal acyl-CoA thioesterases in yeast and humans

JOURNAL J. Biol. Chem. 274 (14), 9216-9223 (1999)

MEDLINE 99194760

REMARK SEQUENCE FROM N.A.
TISSUE=Muscle

REFERENCE 4 (residues 1 to 319)

AUTHORS Deloukas,P., Matthews,L.H., Ashurst,J., Burton,J., Gilbert,J.G.R., Jones,M., Stavrides,G., Almeida,J.P., Babbage,A.K., Bagguley,C.L., Bailey,J., Barlow,K.F., Bates,K.N., Beard,L.M., Beare,D.M., Beasley,O.P., Bird,C.P., Blakey,S.E., Bridgeman,A.M., Brown,A.J., Buck,D., Burrill,W.D., Butler,A.P., Carder,C., Carter,N.P., Chapman,J.C., Clamp,M., Clark,G., Clark,L.N., Clark,S.Y.,

Clee,C.M., Clegg,S., Cogley,V.E., Collier,R.E., Connor,R.E.,
 Corby,N.R., Coulson,A., Coville,G.J., Deadman,R., Dharni,P.D.,
 Dunn,M., Ellington,A.G., Frankland,J.A., Fraser,A., French,L.,
 Garner,P., Grafham,D.V., Griffiths,C., Griffiths,M.N.D.,
 Gwilliam,R., Hall,R.E., Hammond,S., Harley,J.L., Heath,P.D., Ho,S.,
 Holden,J.L., Howden,P.J., Huckle,E., Hunt,A.R., Hunt,S.E.,
 Jekosch,K., Johnson,C.M., Johnson,D., Kay,M.P., Kimberley,A.M.,
 King,A., Knights,A., Laird,G.K., Lawlor,S., Lehtaslahti,M.H.,
 Leversha,M.A., Lloyd,C., Lloyd,D.M., Lovell,J.D., Marsh,V.L.,
 Martin,S.L., McConnachie,L.J., McLay,K., McMurray,A.A., Milne,S.A.,
 Mistry,D., Moore,M.J.F., Mullikin,J.C., Nickerson,T., Oliver,K.,
 Parker,A., Patel,R., Pearce,T.A.V., Peck,A.I., Phillimore,B.J.C.T.,
 Prathalingam,S.R., Plumb,R.W., Ramsay,H., Rice,C.M., Ross,M.T.,
 Scott,C.E., Sehra,H.K., Shownkeen,R., Sims,S., Skuce,C.D.,
 Smith,M.L., Soderlund,C., Steward,C.A., Sulston,J.E., Swann,R.M.,
 Sycamore,N., Taylor,R., Tee,L., Thomas,D.W., Thorpe,A., Tracey,A.,
 Tromans,A.C., Vaudin,M., Wall,M., Wallis,J.M., Whitehead,S.L.,
 Whittaker,P., Willey,D.L., Williams,L., Williams,S.A., Wilming,L.,
 Wray,P.W., Hubbard,T., Durbin,R.M., Bentley,D.R., Beck,S. and
 Rogers,J.

TITLE The DNA sequence and comparative analysis of human chromosome 20
 JOURNAL Nature 414 (6866), 865-871 (2001)
 MEDLINE 21638749
 REMARK SEQUENCE FROM N.A.
 COMMENT

 This SWISS-PROT entry is copyright. It is produced through a
 collaboration between the Swiss Institute of Bioinformatics and
 the EMBL outstation - the European Bioinformatics Institute.
 The original entry is available from <http://www.expasy.ch/sprot>
 and <http://www.ebi.ac.uk/sprot>

[FUNCTION] MAY PLAY A ROLE IN FATTY ACID OXIDATION RATHER THAN
 FORMATION OF FATTY ACIDS. MAY MEDiate NEF-INDUCED DOWN-REGULATION
 OF CD4.

[CATALYTIC ACTIVITY] Palmitoyl-CoA + H(2)O = CoA + palmitate.

[SUBUNIT] INTERACTS WITH HIV-1 NEF.

[SUBCELLULAR LOCATION] Peroxisomal.

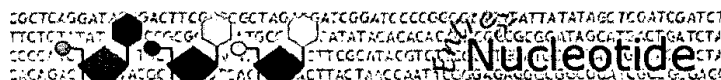
[SIMILARITY] BELONGS TO THE C/M/P THIOESTER HYDROLASE FAMILY.

FEATURES Location/Qualifiers
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 /note="HNAACTE"
 Protein 1..319
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 Site 232
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 Region 291..293
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 /note="LWR -> VWS (IN REF. 2)."
 Site 317..319
 /gene="PTE1"
 /site_type="unclassified"

Region /note="MICROBODY TARGETING SIGNAL (POTENTIAL) ."
319
/gene="PTE1"
/region_name="Conflict"
/note="L -> R (IN REF. 2) ."
ORIGIN
1 msspqapedg qgcgdrgdpp gdlrsvltt vlnleplded lfrgrhywvp akrifggqiv
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121 ificqasfqq aqpspmqhgf smptvpppee lldcetlidq ylrdsnlnqkr yplalnriaa
181 gevpieikpv npsplsqr mepkqmfvr argyigegdm kmhccvaayi sdyafldtal
241 lphqwghkvh fmvslldhsmw fhapfradhw mlyecespwa gsgrglvhgr lwrqdgvlav
301 tcaqegvirv kpqvseskl
//

Revised: July 5, 2002.

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□1: R35332. yg65c03.r1 Soares...[gi:792233]

Links

10/6/02 3:45 PM

[5' AACTGGAAGAATTCGCGGCCGCGAGGAATTTTTTTTTTTTTTTTTTTT 3'];
double-stranded cDNA was ligated to Hind III adaptors
(Pharmacia), digested with Not I and directionally cloned
into the Not I and Hind III sites of the Lafmid BA vector.
Library went through one round of normalization. Library
constructed by Bento Soares and M.Fatima Bonaldo.

SUBMITTER

Name: Wilson RK
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Fax: 314 286 1810
E-mail: est@watson.wustl.edu

CITATIONS

Title: The WashU-Merck EST Project
Authors: Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,
Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,
, Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F.,
Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P.,
Wilson,R.
Year: 1995
Status: Unpublished

MAP DATA

Revised: July 5, 2002.

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result set*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

<u>L4</u>	L3 and @RLAD<19980101	100	<u>L4</u>
<u>L3</u>	11 and antibody	151	<u>L3</u>
<u>L2</u>	L1 and peroxisom\$	23	<u>L2</u>
<u>L1</u>	thioesterase	251	<u>L1</u>

END OF SEARCH HISTORY

FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS' ENTERED AT 14:40:29 ON 06 OCT 2002

L1 347 S EC 3.1.2.2
L2 281 DUP REM L1 (66 DUPLICATES REMOVED)
L3 2313 S THIOESTERASE OR (THIOESTER (1W) HYDROLASE)
L4 11 S L3 AND PTE1
L5 3 DUP REM L4 (8 DUPLICATES REMOVED)
L6 154 S L3 AND PEROXISOM?
L7 59 DUP REM L6 (95 DUPLICATES REMOVED)
L8 9 S L7 AND PY<1998